**Fig. 1**

102

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102

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107

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**Process Name:** X2Y Connector, **Address:** acme.com/x2y

200

**Process Name:** X2Y Connector
**Address:** acme.com/_x2y_inbound

202

Inbound
Mapping
Process

204

Service

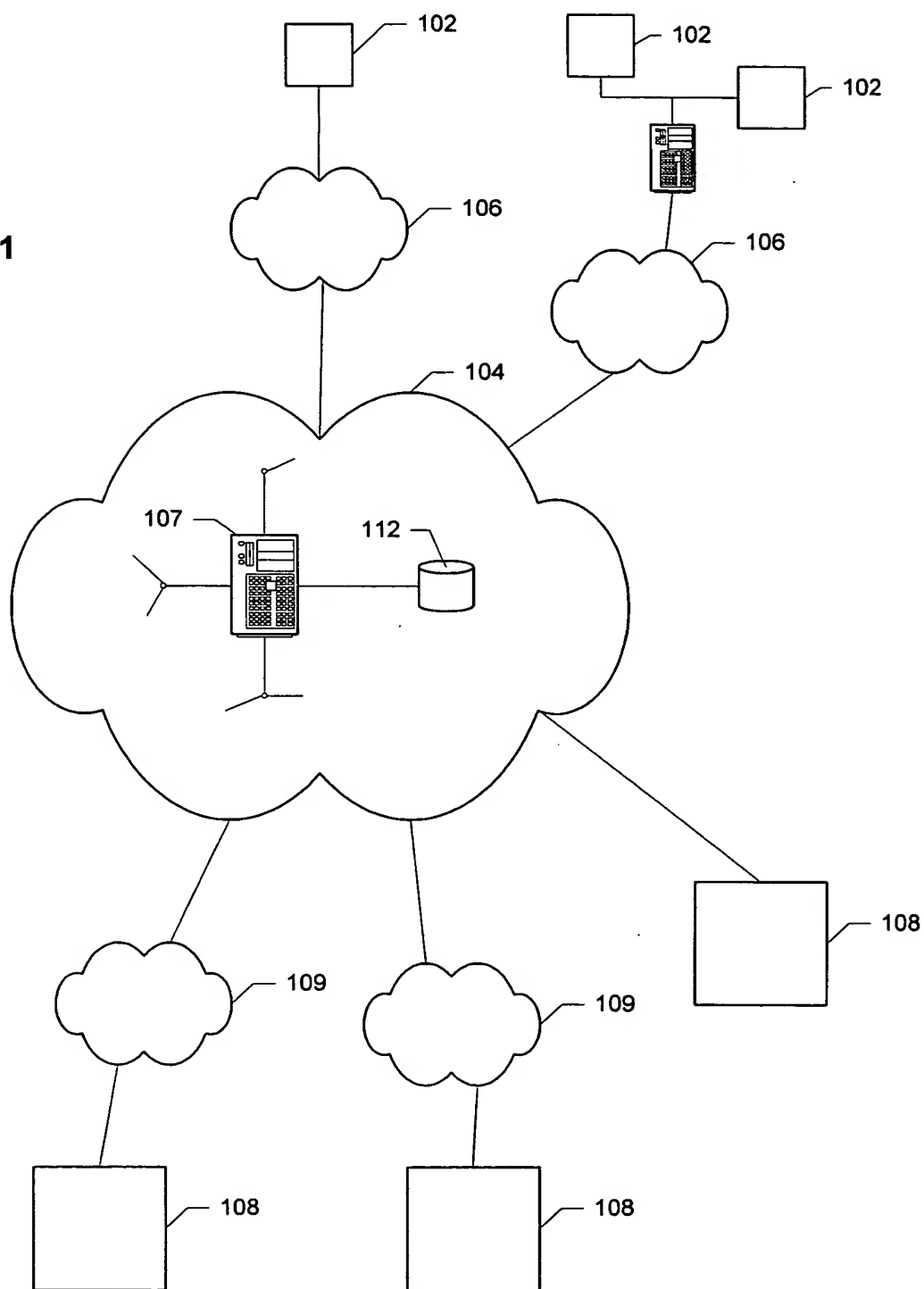**Process Name:** X2Y Connector
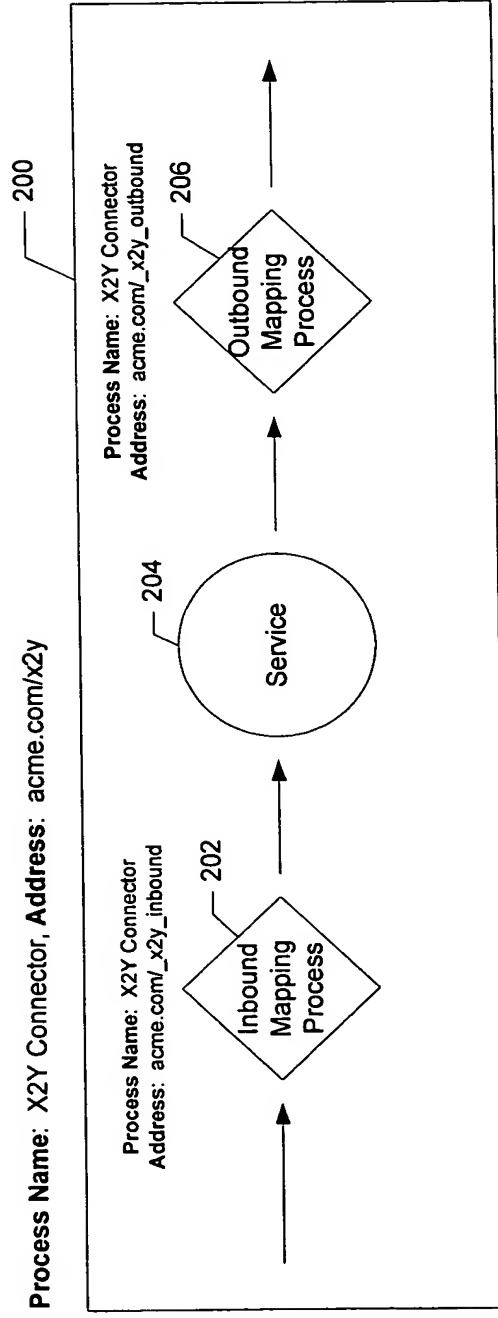**Address:** acme.com/_x2y_outbound

206

Outbound
Mapping
Process

Fig. 2

# GRAND CENTRAL™
COMMUNICATIONS

*anywhere from here...*

Home | Directory | Messaging | My Organization | Manage Services | Design Processes | Relationships | Reports

**Public Directory**   Service Provider Directory   My Directory   Partner Directory                    Logout by mereese   Help

## :: Public Directory > Some Service Category

Search [                    ] [ Search ]                    Submit a Service to the Directory

This is a category description. It goes here. And it should be short. Concise. And to the point.

### ADDITIONAL CATEGORIES

- Auctions (8)
- EDI (3)
- Financial (4)
- Logistics (12)

- Lotteries (1)
- Processes (78)
- Retail (0)
- Survey (4)

### SERVICES

- **htmail -- Do It Yourself Email Marketing**  ✓ Featured Service
  Manage your e-mail marketing - Service listed on behalf of frameWERKS.
  Provider: Grand Central's Public Services
  Connectors: Synchronous SOAP | Asynchronous SOAP | FTP

- **I Like This the Most**  ✓ Featured Service  📥 Import Process
  This is a description of a service that is a little longer. A lot of text goes here to inform people about the nature of this service.
  Provider: Grand Central's Public Services
  Connectors: Synchronous SOAP | Asynchronous SOAP

- **Use this Service**
  Manage your e-mail marketing - Service listed on behalf of frameWERKS.
  Provider: Grand Central's Public Services
  Connectors: Synchronous SOAP | Asynchronous SOAP | SAP

- **Use this Service**
  Manage your e-mail marketing - Service listed on behalf of frameWERKS.
  Provider: Grand Central's Public Services
  Connectors: AS2

XML

Submit a Service to the Directory

**Test Drive the Network** 🔲
**Sign Up Today & Get 25MB/Month FREE**
(surface for anon users only)

**Syndicate the Directory** 🔲
Incorporate our Business Services Directory into your own web site or application today!

## Fig. 3

# GRAND CENTRAL™
## COMMUNICATIONS

*anywhere from here...*

| Home | Directory | Messaging | My Organization | Manage Services | Design Processes | Relationships | Reports |

Public Directory    Service Provider Directory    My Directory    Partner Directory        Logout byrnereese   Help

**:: Public Directory > Some Service Category > Some Service > Some Connector**

     **Service Name:** htmail -- Do It Yourself Email Marketing

   **Connector Name:** Asynchronous SOAP

   **Service Provider:** Grand Central's Public Services

⬚ Customize Connector

## HOW TO USE THIS CONNECTOR

Every service and business process on the Network can be invoked asynchronously. Grand Central uses a poll-based style of asynchronous messaging. In this style of asynchronous messaging, messages are *posted* to the network and a correlation ID is synchronously returned to the client. This correlation ID, also referred to as a "token," is used in subsequent calls to the network to poll for the associated response. Once the response message has been retrieved from the network by polling, the message is then acknowledged with a final call to the network.

### Authentication

Users must always authenticate themselves when messaging over the network. This is to better track who is sending messages and to whom. Authentication is achieved through the use of an HTTP Authorization Header, or a x509 certificate.

When using the HTTP Authorization header, the value must be set to a base64 encoded username and password, where the username is a combination of your username and organization domain delimited by an '@' sign (i.e. johndoe@mydomain.com).

*Consult your toolkit's documentation in order to learn how to properly present authentication credentials to network entities.*

### URLs

.: **Post:** http[s]://pop.grandcentral.com/sync/soaprpc/

.: **Poll:** http[s]://pop.grandcentral.com/sync/poll

.: **Acknowledge:** http[s]://pop.grandcentral.com/sync/ack

### Schemas

.: Post SOAP Header

.: Poll

.: Delivery SOAP Header

.: Postmark SOAP Header

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**Fig. 4**

# GRAND CENTRAL™
COMMUNICATIONS

*anywhere from here...*

| Home | Directory | Messaging | My Organization | Manage Services | Design Processes | Relationships | Reports |

Public Directory    Service Provider Directory    My Directory    Partner Directory              Logout bymereese  Help

## Public Directory > Some Service Category > Some Service

**Service Name:** htmail -- Do It Yourself Email Marketing

**Service Provider:** Grand Central's Public Services  [view info | view services]

⧉ Import Process into Your Account

### AVAILABLE CONNECTORS

- Synchronous SOAP
- Asynchronous SOAP
- FTP

### SERVICE PROPERTIES

**Description:** Manage your e-mail marketing - Service listed on behalf of frameWERKS.

**Service Address:** public.grandcentral.com/htmail

**Service Categories:**  o /Providers/Grand Central's Public Services
o /Subjects/Business and Economy

**Homepage URL:** http://www.framewerks.com/

**Security Policy:** Optional encryption for data exchange; require password authorization or better (e.g. HTTP, FTP)

### WSDL SUMMARY

WSDL Source | Asynchronous WSDL | Synchronous WSDL

**Default Style:** document

**Operations:**  ActivateNewAccount
ValidateWorkingList
Add_Remove_AddressList
ValidateEMailAddress
Add_Remove_Campaign
LinkMailingLists_ToCampaigns
GetCampaignData
Schedule_Remove_Campaign
SendCampaign
SendMail
SendSingleMail
FormatMessageAsHTML
SendTypedMessage
GetCSSStyleInfo

### Directory Quick Search
[        ] [Go]

### Test Drive the Network
Sign Up Today & Get
25MB/Month FREE
(surface for anon users only)

### Syndicate the Directory
Incorporate our Business Services Directory into your own web site or application today!

### Shortcuts
View WSDL Source
Take a look at the asynchronous WSDL to see if it fits your organizations needs.

**Fig. 5**

# GRAND CENTRAL™
## COMMUNICATIONS

*anywhere from here...*

Home | Directory | Messaging | My Organization | **Manage Services** | Design Processes | Relationships | Reports

Overview   My Services   Publish a Service Endpoint                                    Logout byrnereese   Help

## :: My Services

Show [ All Services in Category ▾ ] [Go]          **Directory Admin Functions:** [ On ] [ Off ]

### MY CATEGORIES

**Add Category:**   Name: [                    ]   [ Add Category... ]

**Delete Category:**        [ Delete This Category ]

- My First Category (0)
- Favorites (3)
- Contributed Services (1)
- Processes (78)

### MY SERVICES

**Associate Service:** Address: [                    ]   [ Add Service ]  [ Remove Service ]

- **My First Service** ✓ Featured Service
  Testing Grand Central to see what happens when I publish a service.
  Created by: egreenfader
  Connectors: Synchronous SOAP | Asynchronous SOAP | View All | (+) Add Connector
  Admin: Edit | Copy | Generate Report | Delete

- **My First Service**
  Testing Grand Central to see what happens when I publish a service.
  Created by: byrnereese
  Connectors: Synchronous SOAP | Asynchronous SOAP | View All | (+) Add Connector
  ✎ Edit | 🖻 Copy | ⬛ Report | ⬛ Delete

- **My First Service**
  Testing Grand Central to see what happens when I publish a service.
  Created by: swilliford
  Connectors: Synchronous SOAP | Asynchronous SOAP | View All | (+) Add Connector
  ✎ Edit | 🖻 Copy | ⬛ Report | ⬛ Delete

- **Someone Else's Service**
  This is someone else's service. Notice: I don't have permission to edit it or anything like that!
  Connectors: Synchronous SOAP | Asynchronous SOAP | View All | (+) Add Connector

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# Fig. 6

# GRAND CENTRAL™
## COMMUNICATIONS

*anywhere from here...*

| Home | Directory | Messaging | My Organization | Manage Services | Design Processes | Relationships | Reports |

Overview    My Services    Publish a Service Endpoint                                Logout byrnereese   Help

:: My Services > Some Service > Create Connector

**Create Connector: Step 1**

**Connector Properties**

**Connector Name:** [                    ]

**Address:** acme.com / [                    ]

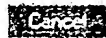: ☐ Allow others to copy this connector

**Connector Type**

: ○ Connector process request-response messages only

○ Connector processes one-way notifications only

○ Connector process both one-way and two-way messages

**Post Interface Binding**

○ **Synchronous SOAP**
   http://sync.grandcentral.com/soap/sync/<address>
○ **Asynchronous SOAP**
   http://pop.grandcentral.com/post/soaprpc/<address>
○ **FTP and Secure FTP**
   ftp://pop.grandcentral.com/<address>
○ **AS2**
   http://pop.grandcentral.com/as2/<address>
○ **Custom**

   URL: [http://your.host.com/uri/file?addr=${ADDRESS}]
   "${ADDRESS}" will be replaced by the address above

[ Next ]    [ Cancel ]

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**Fig. 7**

812

End
Point

800

810

Custom Connector

802

Posting/Receiving

804

Processing/Routing

806

Delivery

808

Service

**Fig. 8**

# GRAND CENTRAL™
COMMUNICATIONS

*anywhere from here...*

Home | Directory | Messaging | My Organization | Manage Services | Design Processes | Relationships | Reports

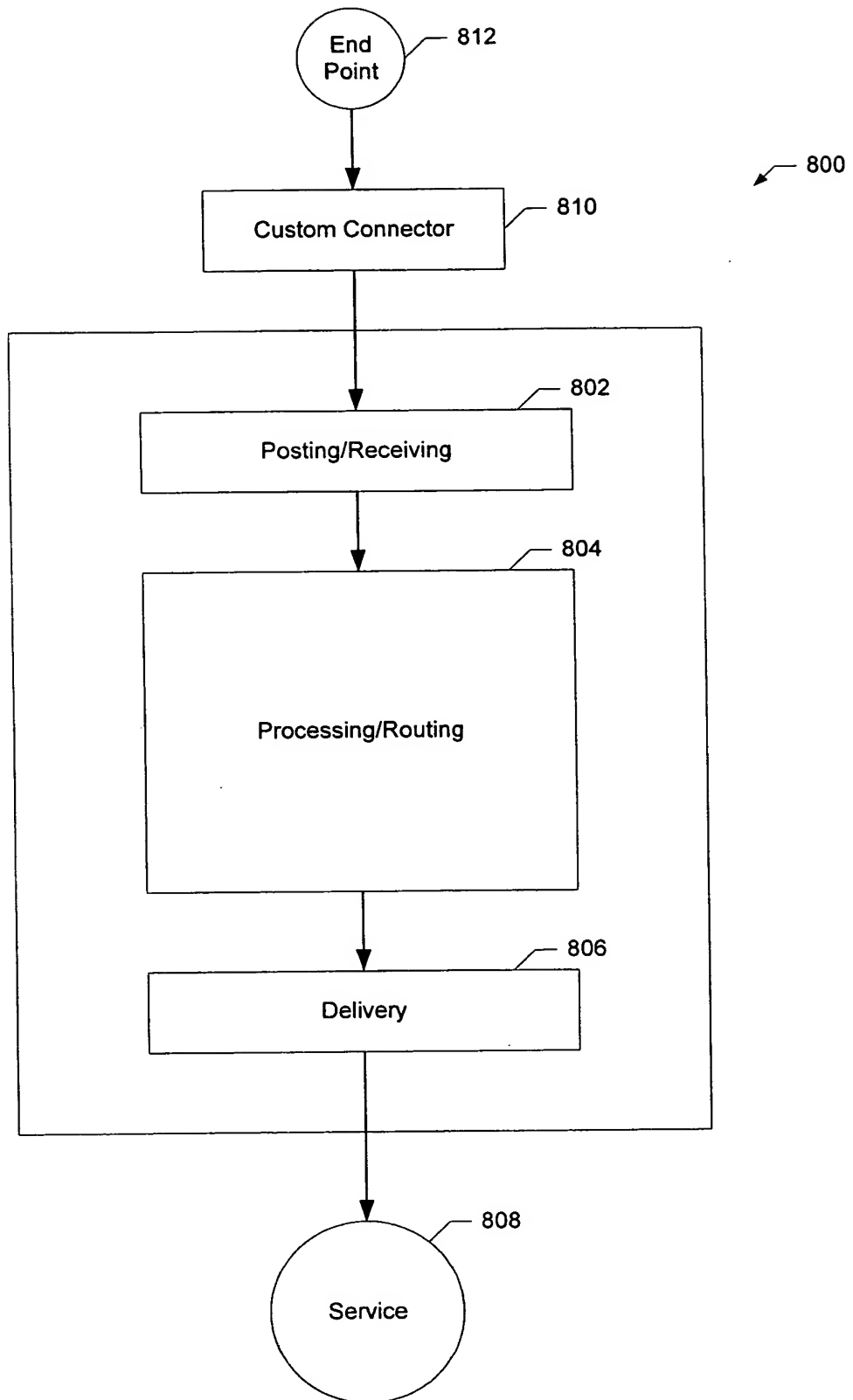Overview | My Services | Publish a Service Endpoint                                    Logout byrnereese  Help

:: My Services > Some Service > Create Connector

**Create Connector: Step 2**

Inbound Mapping Process

The following process is applied to all inbound messages to this service.

    ○ **Pass-thru**

    ○ **Process:** acme.com/myprocess__inbound

        ✄ Orchestrate | ⛔ Delete

Outbound Mapping Process

The following process is applied to all outbound messages from this service.

    ◉ **Pass-thru**

    ○ **Process:** *Undefined* ✄ Orchestrate
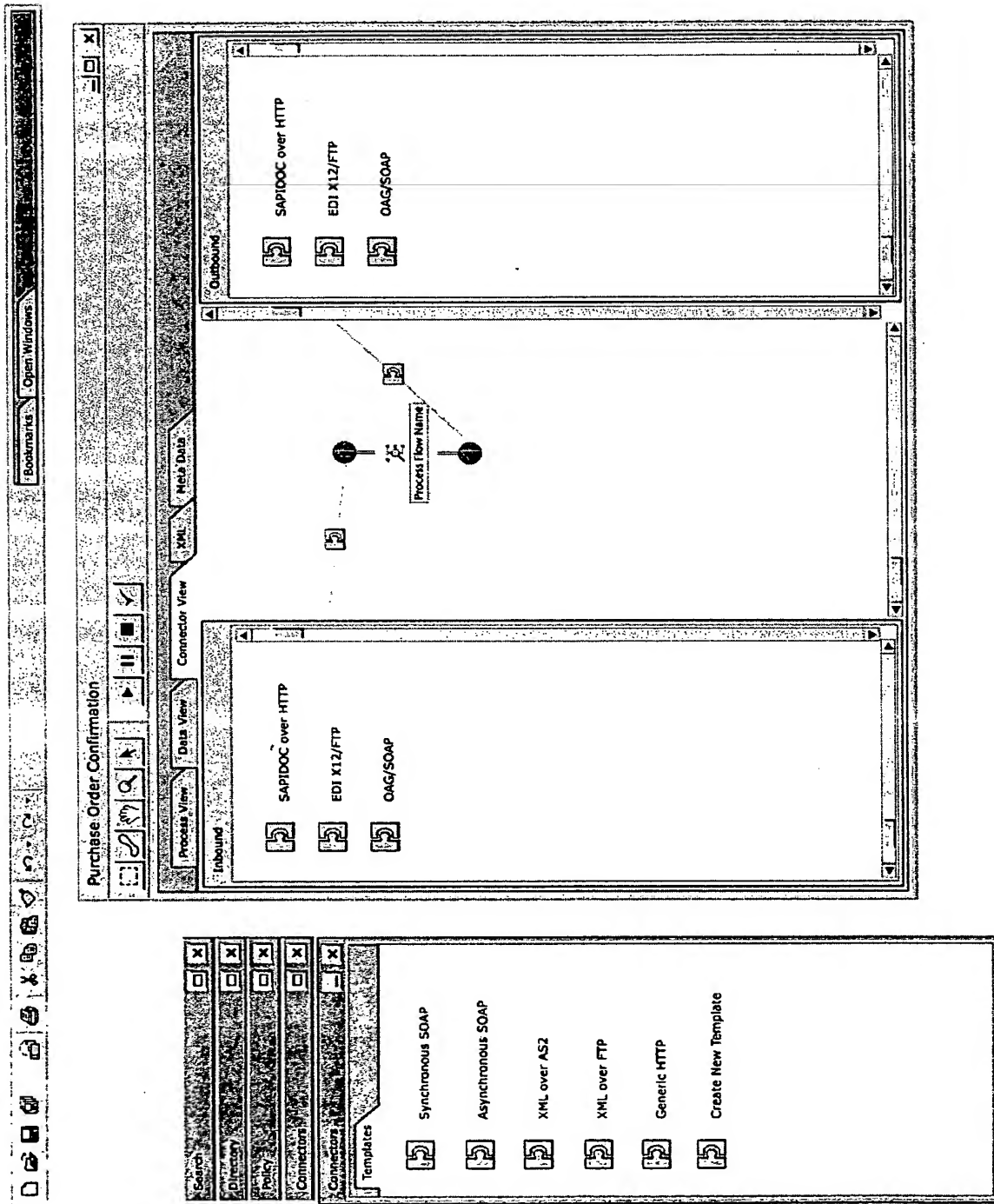
[ Next ]   [ Cancel ]

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**Fig. 9**

Purchase Order Confirmation

Process View | Data View | Connector View | XML | Meta Data

Inbound
- SAPIDOC over HTTP
- EDI X12/FTP
- OAG/SOAP

Outbound
- SAPIDOC over HTTP
- EDI X12/FTP
- OAG/SOAP

Process Flow Name

Bookmarks | Open Windows

Search
Directory
Policy
Connections

Connectors
Templates
- Synchronous SOAP
- Asynchronous SOAP
- XML over AS2
- XML over FTP
- Generic HTTP
- Create New Template

Fig. 10

1100

PROCESSOR
1102

MEMORY
1104

I/O
INTERFACES
1106

BUS

1108

Fig. 11